

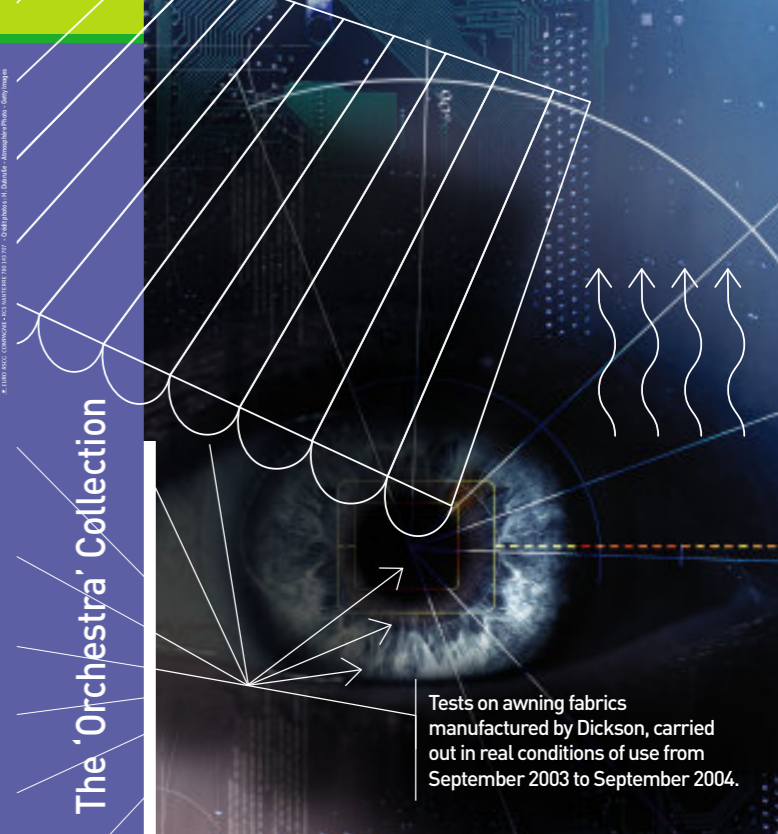
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Light & comfort
ROLLER AWNING FABRIC DESIGNS BY DICKSON



The 'Orchestra' Collection

Tests on awning fabrics manufactured by Dickson, carried out in real conditions of use from September 2003 to September 2004.



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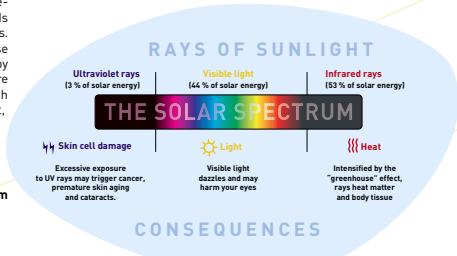
Foreword

Heat, dazzling rays, sunburn, skin cell injury... Today everyone is preoccupied by the need to protect themselves from the sun's rays. This protection also contributes to our comfort and promotes good health. An understanding of the consequences of exposure to the sun's rays gives us the keys to choosing a awning fabric which will help us avoid over-exposure. This is the essential thrust of this study.

Light...

The sun's rays are an electromagnetic phenomenon. The sun sends energy towards the earth in the form of rays of different lengths. This is known as the solar spectrum. These radiations are filtered to a certain extent by the different components of the atmosphere (ozone, clouds, air gases) and so reach the earth as different phenomena (heat, light, colour). We make distinctions between these on the basis of wavelengths, defined in nanometres (nm). The three types of sunlight:

- Ultraviolet rays (U.V.): 250 - 380 nm
- Visible rays: 380 - 780 nm
- Infrared: 780 - 2500 nm



The disintegration of the ozone layer has produced a decrease in the level of ultraviolet filtering, and this may seriously harm your health.

...And Comfort

The fabric used to manufacture blinds may react to sunlight exposure in one of three ways:

- Reflection (IR): a % of the solar energy is reflected back by the fabric
- Transmission (T): a % of the solar energy passes through the fabric
- Absorption: a % of the solar energy is absorbed by the fabric

For fabrics woven with equal density, the percentage values will vary mainly according to the colour of the awning.

In any case: **T + R + A = 100 % of solar energy.**

A Dickson awning fabric affords an effective protection against heat, light and the harmful effects of ultra-violet rays, due to:
- Its high level of influence on the level of reflection, absorption and transmission of solar energy
- Manufacturing quality and weave density.

Please note that fabrics with micro perforations or cut-away fabrics offer a lower level of protection against heat, light and ultraviolet rays.



Fabric reference	UV protection	Thermal comfort	Visual protection	Light colouring
0001 White	UPF 30+	☀	☹	☉
0003 Green	UPF 50+	☀	☹	☉
0017 Royal Blue	UPF 50+	☀	☹	☉
0020 Red	UPF 50+	☀	☹	☉
0013 Brown	UPF 50+	☀	☹	☉
0081 Dune	UPF 50+	☀	☹	☉
0006 Champagne	UPF 50+	☀	☹	☉
0053 Olive	UPF 50+	☀	☹	☉
6020 Raw	UPF 50+	☀	☹	☉
6022 Navy Blue	UPF 50+	☀	☹	☉
6028 Black	UPF 50+	☀	☹	☉
6088 Gray	UPF 50+	☀	☹	☉
6195 Stone	UPF 50+	☀	☹	☉
6316 Yellow	UPF 50+	☀	☹	☉
6318 Ccm	UPF 50+	☀	☹	☉
6410 Vanilla	UPF 30+	☀	☹	☉
6687 Forest Green	UPF 50+	☀	☹	☉
6688 Aqua	UPF 50+	☀	☹	☉
7100 Green Tweed	UPF 50+	☀	☹	☉
7104 Dark Red	UPF 50+	☀	☹	☉
7133 Neutral	UPF 30+	☀	☹	☉
7172 Teal	UPF 50+	☀	☹	☉
7548 Raw Tweed	UPF 50+	☀	☹	☉
7551 Turquoise	UPF 50+	☀	☹	☉
7552 Silver	UPF 50+	☀	☹	☉
7554 Blackcurrant	UPF 50+	☀	☹	☉
7558 Steel Blue	UPF 50+	☀	☹	☉
8200 Hemp Beige	UPF 50+	☀	☹	☉
8201 Pearl Green	UPF 50+	☀	☹	☉
8203 Charcoal Grey	UPF 50+	☀	☹	☉
8204 Sky Blue	UPF 50+	☀	☹	☉
8205 Poppya	UPF 50+	☀	☹	☉
8206 Burgundy	UPF 50+	☀	☹	☉
8207 Terraotta	UPF 50+	☀	☹	☉
8238 Captain Navy	UPF 50+	☀	☹	☉
8400 Asanibh	UPF 50+	☀	☹	☉
8401 Mauve	UPF 50+	☀	☹	☉

Fabric reference	UV protection	Thermal comfort	Visual protection	Light colouring
7996 Hamburg	UPF 30+	☀	☹	☉
8409 Woodstock	UPF 30+	☀	☹	☉
7124 Pompadour	UPF 30+	☀	☹	☉
7472 Tomato	UPF 30+	☀	☹	☉
8417 Capri	UPF 30+	☀	☹	☉
6171 Daves	UPF 12+	☀	☹	☉
6276 Jackson	UPF 12+	☀	☹	☉
8410 Woodduck	UPF 50+	☀	☹	☉
8429 Boston	UPF 50+	☀	☹	☉
6428 Messenger	UPF 50+	☀	☹	☉
7130 Venezia	UPF 50+	☀	☹	☉
7466 Chicago	UPF 50+	☀	☹	☉
8222 Libanno	UPF 50+	☀	☹	☉
8226 Rome	UPF 50+	☀	☹	☉
8413 Handlot	UPF 50+	☀	☹	☉
8416 Capri	UPF 50+	☀	☹	☉
8418 Paris	UPF 50+	☀	☹	☉
8428 Boston	UPF 50+	☀	☹	☉
8431 Woodstock	UPF 50+	☀	☹	☉
6172 Daves	UPF 12+	☀	☹	☉
6275 Baden Baden	UPF 50+	☀	☹	☉
6471 Kent	UPF 50+	☀	☹	☉
6479 Cabourg	UPF 50+	☀	☹	☉
8219 Florence	UPF 50+	☀	☹	☉
8231 Palma	UPF 50+	☀	☹	☉
8411 Woodstock	UPF 50+	☀	☹	☉
8414 Handlot	UPF 50+	☀	☹	☉
8420 Paris	UPF 50+	☀	☹	☉
8430 Boston	UPF 50+	☀	☹	☉